

Bruhat Bangalore Mahanagara Palike
Executive Engineer Project Division Yelahanka

Name of Work: Improvements Road and Drain at Kogilu layout in Ward No. 05

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.MORTH / Chapter 3 (I No-19.1, P No-133)								
	Basic rate	82.00							
	11% AD-HOC	9.02							
	Sub Total-1	91.02							
	6% AW	5.46							
	Sub Total-2	96.48							
	5.00km Lead, Lift Transport	84.00							
	Sub Total	180.48							
	NKEF Layout, 2nd cross	1	90.00	1.05	0.90	85.05			
	Desilt								
	cross road	1	120.00	0.40	0.4	19.20			
						104.25	Cum	180.48	18,815.17
	2 KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms^thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2.(P.No-12,I No-4.2)								
	Basic rate	5046.00							
	11% AD-HOC	555.06							
	Sub Total-1	5601.06							
	6% AW	336.06							
	Sub Total-2	5937.12							
	NKEF Layout, 2nd cross	1	90.00	1.05	0.15	14.18			
	CC Road								
	Kogilu Circle								
	SLN Stores road	1	60.00	4.50	0.15	40.50			
	cross road - 1	1	120.00	4.60	0.15	82.80			
	cross road - 2	1	40.00	5.80	0.15	34.80			
	Bellahalli								
	NKEF Layout, 1st cross	1	90.00	5.00	0.15	67.50			
	NKEF Layout, 2nd cross	1	90.00	4.10	0.15	55.35			
	Rizwan Layout, 1st cross	1	80.00	5.00	0.15	60.00			
	Rizwan Layout, 2nd cross	1	90.00	5.00	0.15	67.50			
	Rizwan Layout, 1st cross	1	80.00	5.00	0.15	60.00			
						482.63	Cum	5937.12	2865404.28

SI No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
3	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm mand down size graded granite metal coarse aggregates @0.0.69cum and fine aggregates @ 0.460cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.6(I No-4.11,P No-13)								
	Basic rate	6011.00							
	11% AD-HOC	661.21							
	Sub Total-1	6672.21							
	6% AW	400.33							
	Sub Total-2	7072.54							
	Raft								
	NKEF Layout, 2nd cross	1	90.00	0.90	0.15	12.15			
	Wall								
	NKEF Layout, 2nd cross	2	90.00	0.15	0.60	16.20			
						28.35	Cum	7072.54	200506.58
4	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2								
	Basic rate	293.00							
	11% AD-HOC	32.23							
	Sub Total-1	325.23							
	6% AW	19.51							
	Sub Total-2	344.74							
	NKEF Layout, 2nd cross	4	90.00		0.60	216.00			
						216.00	Sqm	344.74	74,464.66

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
5	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3(I No-4.46.2,P No-17)								
	Basic rate	60607.00							
	11% AD-HOC	6666.77							
	Sub Total-1	67273.77							
	6% AW	4036.43							
	Sub Total-2	71310.20							
	Consider for drain 60kg/Cum	1	28.35	60.00		1701.00			
						1.70	Tn	71310.20	121298.64
6	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Basic rate	2100.00							
	NKEF Layout, 2nd cross	1	90.00	0.90		81.00			
						81.00	Sqm	2100.00	170100.00
7	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1km and complete as per specifications. MORTH Specification No.301(P.No. 143, I.No. 19.14)								
	Basic rate	46.00							
	11% AD-HOC	5.06							
	Sub Total-1	51.06							
	6% AW	3.06							
	Sub Total-2	54.12							
	5.00km Lead, Lift Transport	84.00							
	Sub Total	138.12							
	CC Road								
	Kogilu Circle								
	SLN Stores road	1	60.00	4.50	0.20	54.00			
	cross road - 1	1	120.00	4.60	0.20	110.40			
	cross road - 2	1	40.00	5.80	0.20	46.40			
	Bellahalli								
	NKEF Layout, 1st cross	1	90.00	5.00	0.20	90.00			
	NKEF Layout, 2nd cross	1	90.00	4.10	0.20	73.80			
	Rizwan Layout, 1st cross	1	80.00	5.00	0.20	80.00			
	Rizwan Layout, 2nd cross	1	90.00	5.00	0.20	90.00			
	Rizwan Layout, 1st cross	1	80.00	5.00	0.20	80.00			
						624.60	Cum	138.12	86,272.00

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
8	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.43cum, with superplastisier @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.5 of PWD SR 2015-16)								
	Basic rate	5542.00							
	11% AD-HOC	609.62							
	Sub Total-1	6151.62							
	6% AW	369.10							
	Sub Total-2	6520.72							
	CC Road								
	Kogilu Circle								
	SLN Stores road	1	60.00	4.50	0.15	40.50			
	cross road - 1	1	120.00	4.60	0.15	82.80			
	cross road - 2	1	40.00	5.80	0.15	34.80			
	Bellahalli								
	NKEF Layout, 1st cross	1	90.00	5.00	0.15	67.50			
	NKEF Layout, 2nd cross	1	90.00	4.10	0.15	55.35			
	Rizwan Layout, 1st cross	1	80.00	5.00	0.15	60.00			
	Rizwan Layout, 2nd cross	1	90.00	5.00	0.15	67.50			
	Rizwan Layout, 1st cross	1	80.00	5.00	0.15	60.00			
						468.45	Cum	6520.72	3054629.97
9	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. (P.No.177, I.No. 22.7)								
	Basic rate	90.00							
	11% AD-HOC	9.90							
	Sub Total-1	99.90							
	6% AW	5.99							
	Sub Total-2	105.89							
	CC Road								
	Kogilu Circle								
	SLN Stores road	1	60.00	4.50		270.00			
	cross road - 1	1	120.00	4.60		552.00			
	cross road - 2	1	40.00	5.80		232.00			
	Bellahalli								
	NKEF Layout, 1st cross	1	90.00	5.00		450.00			
	NKEF Layout, 2nd cross	1	90.00	4.10		369.00			
	Rizwan Layout, 1st cross	1	80.00	5.00		400.00			
	Rizwan Layout, 2nd cross	1	90.00	5.00		450.00			
	Rizwan Layout, 1st cross	1	80.00	5.00		400.00			
						3123.00	Sqm	105.89	330706.96

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
10	Providing groove cutting for width of 5mm to 10mm and depth 80mm- 100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade, coolant etc., including cleaning of groove & providing sand and hot bitumen fillers, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. - for concrete pavement (P.No.177, I.No. 22.7)								
	Basic rate	115.00							
	11% AD-HOC	12.65							
	Sub Total-1	127.65							
	6% AW	7.66							
	Sub Total-2	135.31							
	CC Road								
		100	5.00			500.00			
						500.00	mtr	135.31	67,654.50
11	KSRRB 500-3. Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100 m. sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH specification clause 501 (P.No. 161, I.No. 21.30)								
	Basic rate	87.00							
	11% AD-HOC	9.57							
	Sub Total-1	96.57							
	6% AW	5.79							
	Sub Total-2	102.36							
	LHS	1	370.30	4.30		1592.29			
	RHS	1	370.30	5.30		1962.59			
						3554.88	Sqm	102.36	363892.45
12	KSRRB M400-17 : Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.(P.No.158, I.No. 20.18)								
	Basic rate	1668.00							
	11% AD-HOC	183.48							
	Sub Total-1	1851.48							
	6% AW	111.09							
	Sub Total-2	1962.57							
	LHS	1	370.30	4.30	0.225	358.27			
	RHS	1	370.30	5.30	0.225	441.58			
						799.85	Sqm	1962.57	1569756.73

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Total Construction Cost								8923501.94
	11% KRIDL Charges								8921983.95
	1% Towards PMC Cost								981418.23
	Sub Total								96,500.00
	Utility Shifting, Miscellaneous and Rounding off								999902.19
	GRAND TOTAL								10000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR, Bangalore circle for year 2016-2017, issue rates and Data Rates. 11% AD-HOC is added as per order issued on 06-02-2018

[Signature]
 Assistant Engineer
 Project Division Yelahanka
 BBMP Bangalore

[Signature]
 Asst. Executive Engineer,
 Project Division Yelahanka
 BBMP Bangalore

[Signature]
 Executive Engineer,
 Project Division Yelahanka
 BBMP Bangalore

Administrative Approval

Accorded For 100.00 Lakhs only
 Head of A/C P 3158
 CER NO : 115 Dt: 8/2/18

[Signature]
 E.B. (Project) 8/2

Technical Sanction
 Accorded For 100.00 Lakhs only
 Head of A/C P 3158
 CER NO : 621 Dt: 08/02/18

[Signature]
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 CE (YNK).